

## ABSTRACT OF THE DISCLOSURE

### Voltage Converter

A converter includes a transformer circuit, a filter, and a controller. The transformer circuit is coupled to the filter, and the controller is coupled to the transformer circuit and the filter. The transformer circuit includes an input port and an autotransformer coupled to the input port. The converter receives an input signal at the input port and the filter generates an output signal at an output port. The controller receives the output signal from the filter and provides one or more control signals to the transformer circuit to control the output signal. A method includes receiving a first input signal at a transformer circuit including a first coil and a second coil, activating a first switch to serially connect the first coil to the second coil, activating a second switch to connect the second coil to a second input signal, deactivating the first switch and the second switch, and activating a third switch to connect the first switch to the second input signal.

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